## INSTALLATION NOTES

**DON'T RISK YOUR APPLIANCE WARRANTY**
ONLY A LICENSED PERSON WILL GIVE YOU A COMPIANCE CERTIFICATE, SHOWING THAT THE WORK COMPLIES WITH ALL THE RELEVANT STANDARDS.

AND ONLY A LICENSED PERSON WILL HAVE INSURANCE PROTECTING THEIR WORKMANSHIP FOR 6 YEARS.

SO MAKE SURE YOU USE A LICENSED PERSON TO INSTALL THIS APPLIANCE AND ASK FOR YOUR COMPLIANCE CERTIFICATE TO ENSURE THE MANUFACTURERS APPLIANCE WARRANTY WILL BE HONOURED.

COPY RATING LABEL HERE

Date installed: .....

Installed by: .....

Compliance Certificate No .....

For service to this appliance or spare parts contact the CANNON distributor:
**Sampford IXL (spare parts)**
Phone: 1300 727 421
Fax: 1300 727 425
email: service@sampfordixl.com.au



Sampford IXL

**Cannon**
FITZROY INBUILT
*Power Flue*

Part No: F3045
*Revision P - 2010*

**OPERATION INSTRUCTIONS**

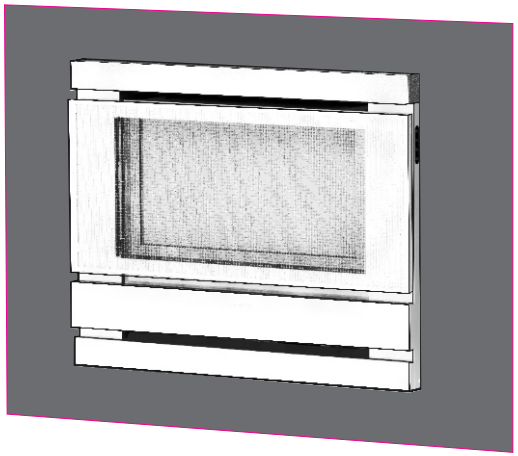
**INSTALLATION INSTRUCTIONS**

**SERVICE INSTRUCTIONS**

IAPMO–R&T OCEANA GasMark

**Gmk10030**
**AS4543:2008**

# Cannon
## FITZROY INBUILT
## *Power Flue*



***PLEASE READ THIS MANUAL BEFORE INSTALLING THIS HEATER.***

This heater is approved for use with Natural and Propane gases.

**Please leave instructions with the owner**

## CONTENTS


Contents 2

Warranty 3

- ❍ Distributor

Heater specifications 4

Safety warnings 5-6

- ❍ What to do if you smell gas
- ❍ Warnings
- ❍ Standards
- ❍ Regulatory location 7

User instructions 8-9

- ❍ Operating instructions
- ❍ Cleaning
- ❍ Flame characteristics

Installation instructions 10 -13

- ❍ Clearances
- ❍ Fitment of cabinet depth spacer
- ❍ Flueing options
- ❍ Fitment of flue cowl
- ❍ Preparing flexible flue pipes
- ❍ Front fascia removal
- ❍ Sealing the fascia

Electrical Connection 16

Gas connections 16

Log installation 17

Gas control 18-19

- ❍ Gas pressure point
- ❍ Gas pressure adjustment

Trouble-shooting 20-21

Service instructions 22-24

- ❍ General
- ❍ To replace the primary glass
- ❍ To replace outer glass
- ❍ To replace the gas control
- ❍ To replace the ignition (module) device
- ❍ To replace the room circulation fan
- ❍ To replace the fan pressure switch
- ❍ To replace the burner and spark/sense electrode
- ❍ To replace the combustion fan
- ❍ Wiring diagram
- ❍ Data plate
- ❍ Date installed, Compliance Certificate No.
- ❍ For service to this appliance




## NOTES

## NOTES



## WARRANTY

The benefit conferred by this warranty are in addition to all other rights and remedies in respect of the product that consumers have under the Trade Practices Act and similar laws of the States and Territories.

We warrant this Cannon appliance to be free of defects in materials, workmanship and manufacturing to the original purchaser for 2 years, (10 years on the heat exchanger) from the date of original purchase. We will, at our option and subject to the terms of this warranty, repair or replace free of charge this Cannon appliance or any component part, which upon examination by us or our repair agent is found to be defective in materials, workmanship or manufacturing. However, this warranty does not cover any consumables (if any). The purchaser must present the original purchase receipt to us when making any claim under this warranty.

This warranty will not apply if: (i) a compliance label or serial number (as the case may be) has been removed from the appliance or rendered illegible; (ii) the appliance has been subject to misuse, abuse, accident, incorrect installation or non-domestic use; (iii) the appliance has been modified, tampered with or repaired by a person other than our authorised repair agent; (iv) the appliance is re-installed/relocated during the warranty period.

The purchaser is responsible for all travelling expenses if the purchaser requests any repair be carried out at a place outside areas normally serviced by our repair agents.
Should you require service on this appliance, please contact our service department on 1300 727 421.

Enter the details of the date installed and the Compliance Certificate number in the appropriate area on the rear page of this manual.

Don't risk your appliance warranty

Only a licensed person will give you a Compliance Certificate, showing that the work complies with all the relevant standards.

And only a licensed person will have insurance protecting their workmanship for 6 years.

So make sure you use a licensed person to install this appliance and ask for your Compliance Certificate to ensure the manufacturers appliance warranty will be honoured.

Distributor

**This appliance is designed, manufactured and distributed by:**

Sampford IXL

Tel: 1300 727 421

## HEATER SPECIFICATIONS

| | |
|---|---|
| Gas type:Natural or Propane gas, as indicated on data label | |
| Gas consumption: | 26.0 MJ/hr |
| Energy output: | 5.98 kW |
| Enery star rating: | 5.05 stars |
| Heater type: | Gas space heater approved to AS 4553:2008 |
| Operating pressure: (at burner high setting) | Natural gas: 0.75 kPa<br>Propane gas: 2.65kPa |
| Gas regulator: | Integral part of controller |
| Min. inlet pressure: | 1.13 kPa (NG)<br>2.75 kPa (Propane) |
| Fan: | 3 speed |
| Controller: | Electronic direct spark |
| Power requirement: | 240 VAC 10 A |
| Power consumption: | 90 VA maximum |
| Minimum cavity Height: | 605 mm* |
| dimensions:Width: | 700 mm |
| Depth: | 485 mm |

*(**FOR INSTALLATION INTO A MASONRY/BRICK FIREPLACE**)

**Optional accessories:**
Glass front
Remote thermostat
Spacer kit
3 sided surround
4 sided surround
Console kit

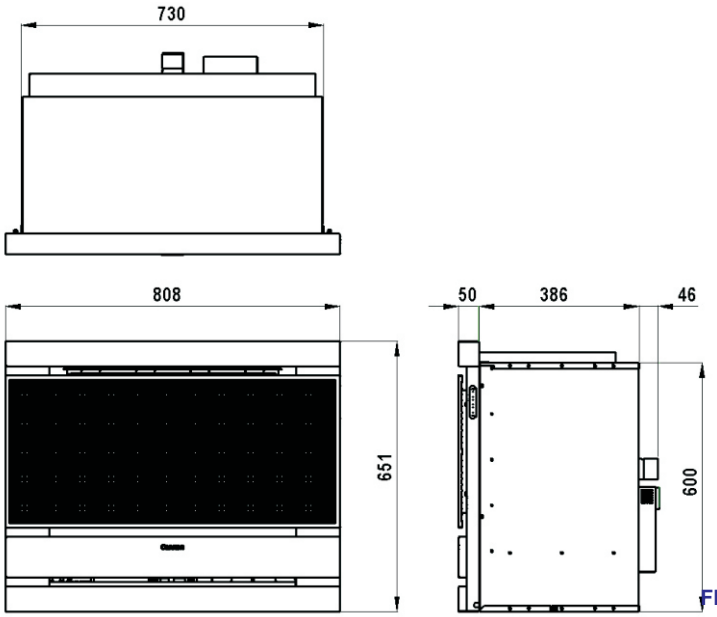
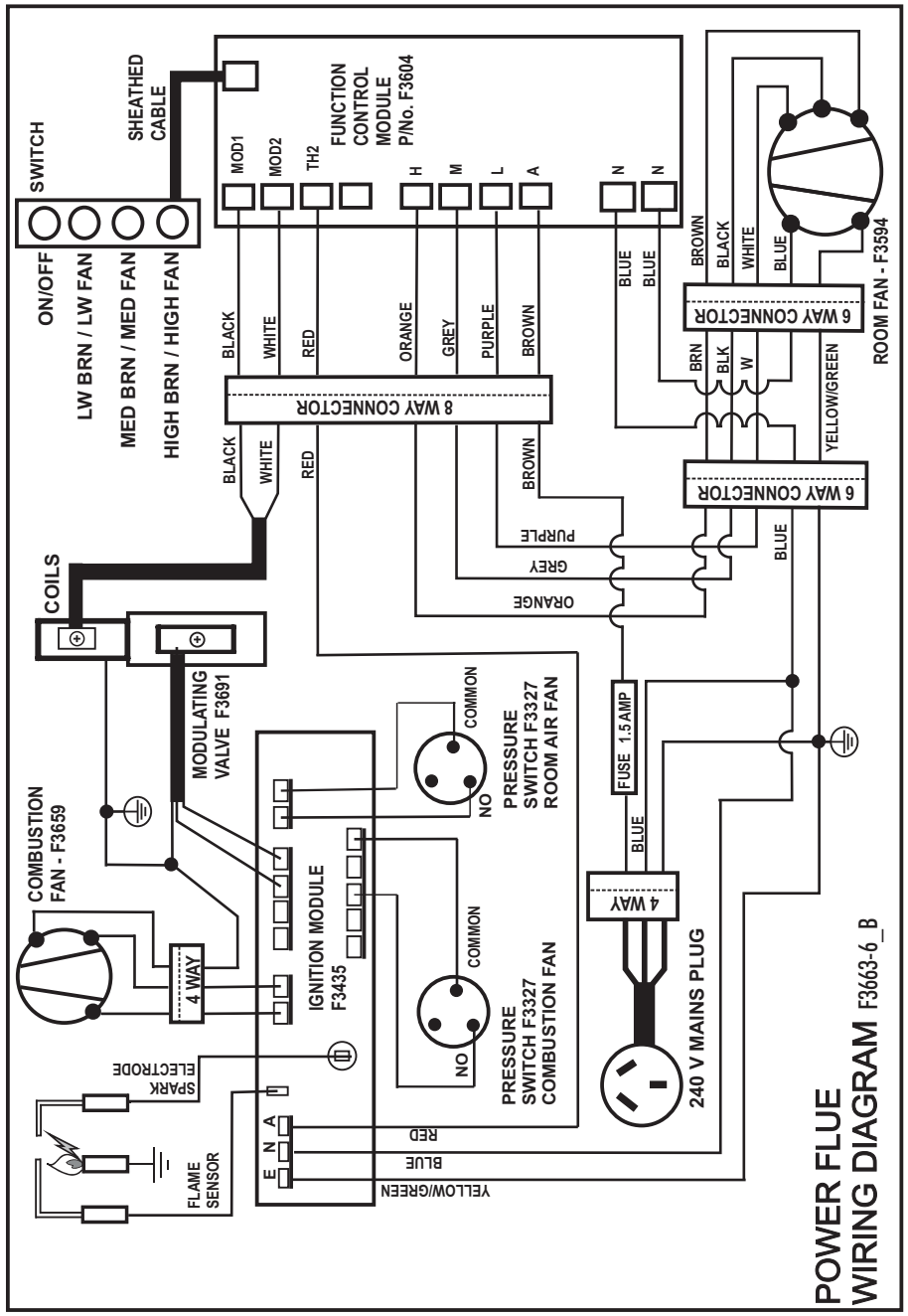



FIG 1.



## WIRING DIAGRAM



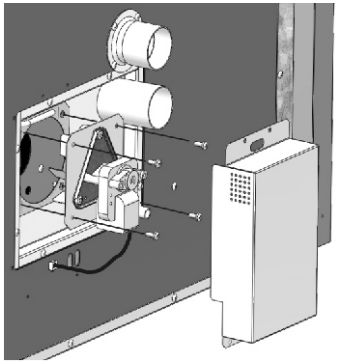
## SERVICE INSTRUCTIONS

**TO REMOVE THE BURNER AND ELECTRODES**

1. Remove the front mesh cover.
2. Slacken off the glass clamp screws and remove the top and one side clamp.
3. Follow fig 25. of the installation instructions for glass removal.
4. Remove the logs from the burner chamber.
5. Remove the inspection hatch cover.
6. Disconnect supply pipe nut from the burner manifold.
7. Remove the electrode connections from the spark module.
8. Release gland seal retaining nut.
9. Remove burner fixing brackets (2) from rh and lh sides of the burner. lift the burner assembly upwards and carefully remove from the burner chamber.
10. Pull electrode leads from the gland seal.
11. Replace in reverse order.

**TO REPLACE THE COMBUSTION FAN**

The Combustion Fan is accessed from the rear of the heater. Therefore to replace the combustion fan the heater must be removed from the fireplace. The flue terminal may need to be removed from the flue hoses to allow the heater to be moved.



1. Disconnect combustion fan wiring from loom.
2. Remove the rear cover.
3. Remove the four (4) screws securing the fan to fan duct.
4. Remove fan assembly from fan duct.
5. Replace in reverse to disassembly.

**FIG 31.**

**TO REPLACE TYPE "X" CORD**

1. CONTACT SAMPFORD**IXL** SERVICE DEPARTMENT AND QUOTE CORD PART NUMBER **F2799.**



## SAFETY WARNINGS

### Please read this manual before installing and using the heater.

**What to do if you smell gas**

1. Turn OFF the main gas supply.
2. Extinguish any open flame.
3. Open windows.
4. Do not touch electrical switches.
5. Do not use your telephone.
6. Call your gas supplier immediately from a neighbour's phone.

**Warnings**

1. Improper installation, adjustment, alteration, service or maintenance can cause injury or property damage. Refer to the sections of this manual for correct procedures, or consult with place of purchase, a licensed plumber, a gas supplier or the CANNON distributor listed in this manual.
2. Install the heater only in locations that are referred to in the installation instructions. Do not build the heater into bookcases, walls or enclosures without the use of a Mock Fireplace kit if appropriate for that type of installation.
3. Due to high temperatures the room heater should be located out of traffic and away from:
   Furniture and draperies
   Combustible materials
   Gasoline and other flammable liquids

   Do not place clothing or other flammable material on or near the heater.
4. Keep curtains*, clothes, furniture and other flammable materials at least 900mm from front and sides of heater.
   ** At the owner's discretion curtain clearance can be less than 900mm as long as they are restrained from the front, top and sides of the heater. The manufacturer takes no responsibility if curtain clearance is less than 900mm and not restrained.*
5. Children and adults should be alerted to the hazard of high surface temperature and should take care to avoid burns or clothing ignition.

   This appliance is not intended for use by persons (including children) with reduced physical, sensory or mental capabilities or lack of experience and knowledge, unless they have been given supervision or instruction concerning use of the appliance by a person responsible for their safety.
   Children should be supervised to ensure that they do not play with the appliance.
6. Never attempt to burn paper or any other material in the heater.
7. Do not place articles on or against this appliance.
   Do not use or store flammable materials near this appliance.
   Do not spray aerosols in the vicinity of this appliance while it is in operation.
   Do not modify this appliance.

## SAFETY WARNINGS

8. If removed, the glass window must be put back onto the unit prior to operating the heater.
9. Installation and repairs should be performed by a licensed service person only, refer to back of the instructions for service number.
10. For installation into a non-combustible fireplace, i.e.: masonry or brick or into a mock fireplace, i.e. timber or plasterboard, the chimney and base should be of sound construction and be free from cracks and holes (to ensure that sufficient flue draught can be generated).

**Note: When installing into a mock fireplace a mock fireplace installation kit must be used.**

11. The heater must be properly installed in a working chimney or connected to a venting system. Operation of this heater, when not connected into a working chimney or a properly installed and maintained venting system can result in carbon monoxide (CO) poisoning and possible death.
12. Testing the effectiveness of the flue.
    Before testing the flue confirm air vents are unobstructed. If an exhaust fan or other heating appliances are present switch them on. This is to test that there is no interaction between the Cannon heater and other appliances.

**Refer to Australian Standard Gas Installations AS 5601.**
**For 'air movement not to affect appliance' see clause 5.2.1.**
**For 'air supply to appliance' see clause 5.4.1.**
**For 'ventilation requirements' see clause 5.4.3.**

13. The appliance should be inspected prior to use, with regular inspections (annually) to be made by a licensed service person. It is important that circulating air passageways of the appliance be kept clean, dirt and lint free, for a safe and efficient operation of the heater.
14. The first time you use your heater a smell may occur due to its new condition. This is quite normal and will disappear after a few hours use at the maximum control position.

**Important:**
**When the heater is operating the mesh guard/glass front is hot. The mesh guard, or glass front, fitted to the heater conforms to Australian Standards requirements.**
**The guard is fitted to this appliance to reduce the risk of fire or injury from burns and no part of it should be permanently removed.**
**For protection of young children or the infirm, a second guard is required.**

Standards
This appliance meets the following standards (When installed correctly):
Standards Australia: AS/NZS 3100
AS 5601
AS 4553:2008



## SERVICE INSTRUCTIONS. (DO NOT MODIFY THIS APPLIANCE)

### To replace the room circulation fan

1 Remove the fascia. Refer page 13, figure 16, of the installation instruction
2. Remove the screw retaining the bracket mounting the valve controls ( white box) Move the bracket and controls to the front of the heater.
3. Disconnect the fan plug from the plug carrier. Remove the two M5 wing nuts which locate the fan to the fan chamber underside. Lower fan from male thread.
4. Disconnect the silicon tubes from the fan pressure switch taking note of spigots the two tubes are connected to. Rotate the fan scroll 90 deg and remove fan from chamber.
5. Replacement fan.Remove the venturi and bracket from the fan removed from the heater. Insert and secure the venturi and bracket on replacement fan.
6. Insert fan into fan chamber ensuring that the silicon tubes are not crushed or kinked. Locate fan onto male threads and secure with M5 wing nuts, ensuring rubber buffer locates over thread.
7. Replace silicon tube onto fan pressure switch and reconnect fan wiring. Take care to ensure that silicon tubes are on the correct spigots on the pressure switch.
8. Test operation of room circulation fan and fan pressure switch - turn heater on low heat. The fan should operate immediately. There should be a 5 - 10 second delay before the fan pressure switch is switched dependent upon room temperature.

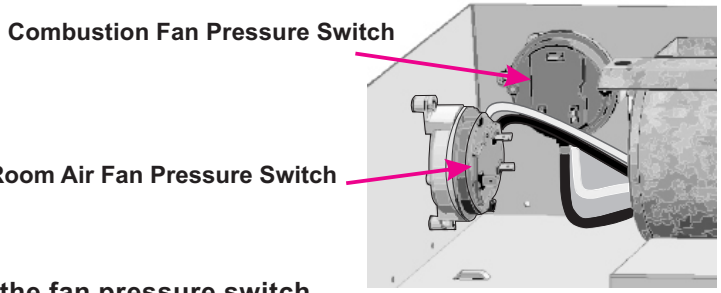



FIG 30.

### To replace the fan pressure switch

1. Remove the fascia. Refer page 14, figure 12, of the installation instruction
2. Remove the screw retaining the bracket mounting the valve controls (white box) Move the bracket and controls to the front of the heater.
3. Remove the connecting wiring (3) from the pressure switch.
4. Remove the silicon tube from the pressure switch.
5. The pressure switch is secured onto the rear of the fan chambehousing by four M4 screws. Remove screws.
6. Replace in reverse order.
7. Test operation of fan pressure switch - turnheater on low heat. There should be a 5 - 10 second delay before the fan pressure switch to activate dependent upon room temperature.

# SERVICE INSTRUCTIONS - (DO NOT MODIFY THIS APPLIANCE)

**General**

1. Service work to be carried out by an authorised service person only.
2. Unplug from wall socket or turn off power at main switchboard if heater is hard wired.
3. Always shut off the gas supply and ensure that the heater is cool before commencing any service operations.
4. Always check for gas soundness after servicing.

**To replace the primary glass**

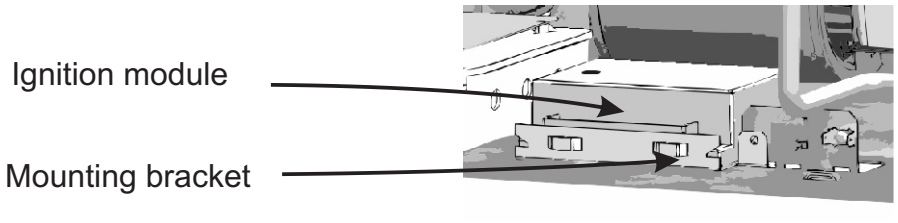
1. Refer pages 13 and 14, steps 7 to 11, of the installation instructions. Refit glass and replace in reverse order ensure the inside surface of the glass is clean and free from finger marks.

Note: ensure the inside surface of the glass is clean and free from finger marks.

**To replace the gas control**

1. Remove the fascia
2. Unplug the cables from the gas control and disconnect the earth connection.
3. Disconnect the gas inlet (1/2" compression nut) connection at entry gas control and the 16mm nut at the outlet of the gas control.
4 . Remove the three M4 screws from the cradle retaining the gas control.
5. Remove gas control.
6 Replace gas control in reverse order and check for gas tightness

Note: check the gas pressure on high and low burner settings. Refer 'gas control', pages 13 and 14



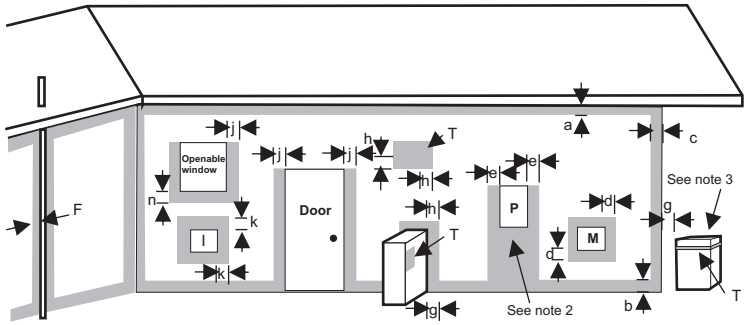

**To replace the ignition (module) device** **FIG 29.**

1. Unplug wire connectors from ignition module.
2. Remove module mounting bracket by removing mounting screw.
3. Using pliers bend tabs so that module can come away from the mounting bracket.
4. Replace ignition device in reverse order.



# REGULATORY LOCATION

**FIG 2**. MINIMUM CLEARANCES REQUIRED FOR BALANCED FLUE TERMINALS, FAN ASSISTED FLUE TERMINALS, ROOM SEALED APPLIANCE TERMINALS OR THE TERMINALS OF OUTDOOR APPLIANCES.




**T = Flue terminal**
**I = Mechanical air inlet**
**M = Gas meter**
**P = Electricity meter or fuse box**
**Shading indicates prohibited areas for flue terminals**

| Ref | Item | Minimum clearances (mm) | |
|---|---|---|---|
| | | Natural draft | Fan assisted |
| a | Below eaves, balconies and other projections: | | |
| | • *Appliances* up to 50 MJ/hr input | 300 | 200 |
| | • *Appliances* over 50 MJ/hr input | 500 | 300 |
| b | From the ground, above a balcony or other surface | 300 | 300 |
| c | From a return wall or external corner† | 500 | 500 |
| d | From a *gas meter* (M) (see 4.7.11 for vent location of *regulator*) | 1000 | 1000 |
| e | From electricity *meter* or fuse box (P) | 500 | 500 |
| f | From a drain pipe or soil pipe | 150 | 75 |
| g | Horizontally from any building structure or obstruction facing a terminal | 500 | 500 |
| h | From any other *flue terminal*, cowl, or combustion air intake | 500 | 500 |
| j | Horizontally from an openable window, door, non-mechanical air inlet or other opening into a building with the exception of sub-floor ventilation: | | |
| | • *Appliances* up t 150 MJ/hr input | 500 | 300 |
| | • *Appliances* over 150 MJ/hr input up to 200 MJ/hr input | 1500 | 1500 |
| | Appliances over 200 MJ/hr input | 1500 | 1500 |
| | All fan assisted *flue appliances*, in the direction of discharge | | 1500 |
| k | From a mechanical air inlet, including a spa blower | 1500 | 1500 |
| n | Vertically below an openable window, non-mechanical air inlet, or any other opening into a building with the exception of sub-floor ventilation: | | |
| | • Space heaters up to 50 MJ/hr input | 150 | 150 |
| | • Other *appliances* up to 50 MJ/hr | 500 | 500 |
| | • *Appliances* over 50 MJ/hr input and up to 150 MJ/hr input | 1000 | 1000 |
| | • *Appliances* over 150 MJ/hr | 1500 | 1500 |

† - unless appliance is certified for closer installation

Notes:
1 All distances are measured to the nearest part of the terminal.
2 Prohibited area below electricity meter or fuse box extends to ground level.
3 See clause 5.13.6.6 for restrictions on the *flue terminal* under covered areas.
4 See Appendix J. Figures J2(a) and J3(a), for clearances required from a flue terminal to an *LP Gas Cylinder*. A *flue terminal* is considered to be a source of ignition.
5 For *appliances* not addressed above acceptance should be obtained from the technical regulator.

**THE POWER FLUE HEATER IS FAN ASSISTED. SEE COLUMN HIGHLIGHTED**

**Special Note:**
**This chart shall be read in-conjunction with the full Australian standards.**

**AS 5601**

## USER INSTRUCTIONS

**Operating instructions**

Plug the power cord into the wall socket and turn on the power to the heater (see figure 3). Refrain from using an extension cord. Alternatively, switch on the isolation switch and circuit breaker at the main switchboard if the heater has fixed wiring.

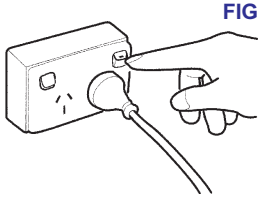


FIG 3.

**User controls, figure 4**

When there is power available to the heater and it is in the OFF or Standby mode, a red LED located inside the ON/OFF button will flash twice and will extinguish for approximately 3 seconds and then repeat this cycle continuously.

ON / OFF

LOW

MEDIUM

HIGH

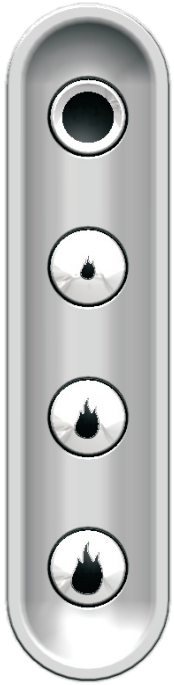
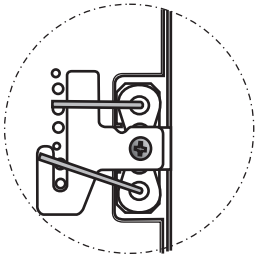


FIG 4.

- To turn the heater ON press the ON/OFF button once.
- The LED will illuminate and stay lit but there will be approximately 5 seconds delay before the ignition system commences. On successful ignition the heater will operate on Low Fire and Low Fan for approximately 3 minutes then will switch to selected setting (if already chosen).
- The LED will extinguish approximately 30 seconds following the ignition startup.
- Select the desired Heating level by pressing the LOW, MEDIUM or HIGH button once as required.
- LOW is LOW heat and LOW speed fan. HIGH is HIGH heat and HIGH speed fan.
- To turn the heater OFF press the ON/OFF button once. The burner will extinguish but the fan will continue to operate for approximately 3 minutes.
- If the Ignition system fails to ignite or keep the burner alight, press the ON/OFF button once to turn off the heater. Wait at least 20 seconds before attempting to turn the heater on again. Remember that the fan will continue to operate for approximately 3 minutes after the OFF button has been pressed but you can turn the heater ON again without having to wait for the fan to stop operating.
- If there is an interruption to the power supply the heater will fail safely and switch off. When the power supply has been restored adopt the 20 seconds waiting rule before turning the heater ON.



## TROUBLESHOOTING

| | | |
|---|---|---|
| 5 | Confirm spark is produced when heater is turned on. | • A blue spark can be seen when the heater ignition process starts. Ensure spark is present between electrode and burner. |
| 6 | If no spark being produced.  FIG 28. | • Check that the spark lead is connected into the module.<br>• Check the continuity of the **ht** cable.<br>• Check that there is no short circuit to earth and spark gap is correct. **(see fig 35.)**<br>• A positive check is to use a jumper wire, connect one end of the earth and hold the other end with insulated pliers 4 mm from the spark generator on the module. If there is no spark to Earth then change the module. |
| 8 | Spark is being produced but not at the burner. | • Listen for cracking sound. The spark is misdirected.<br>Check the spark ceramic insulator for signs of cracks. |
| 9 | Sparks, ignites on low flame then extinguishes after 10 seconds. Continues to spark while flame present. | • Check that the wall socket to the appliance has correct polarity. Do not use an extension cord.<br>• Check polarity in the electrical supply lead to appliance.<br>• Check that the sense electrode is in flame.<br>• Check that the appliance is earthed correctly. A check between the earth pin on the plug and an unpainted part of the appliance should see a resistance of 0.1 ohms. |
| 10 | No gas to burner | • The gas valve should open at the same time as the igniter sparks. If there is no gas to the burner when this occurs check the solenoid coils for continuity.<br>• Check that the gas pressure is present at the test point when the spark is being generated.<br>• Check that there is gas to the inlet of the gas control. |
| 11 | Appliance lights but goes into lockout | • Test the flame for correct ionisation signal.<br>Connect a multimeter in series with the flame rod and set the function to measure micro-amps.<br>The module will go into lockout if the flame current sensitivity is less than 0.5 micro-amps.<br>The approximate signal strength on high flame is about 10 micro-amps and on low 4 micro-amps.<br>The signal strength will fluctuate but should be greater than 1.5 micro-amps at all times.<br>**Take precautions because the ionisation probe can have a high negative voltage and can cause a shock.** |
| 12 | Fuse blowing. | • If the fuse continues to blow check the solenoid coils for a signs of them being shorted.<br>• Check the fan and wiring for short circuit. |
| 13 | Heater will not start, no indicator lamps. | • Check that the electricity supply is correct. If Nuetral / Active are incorrectly connected the control module will not function. |

## TROUBLESHOOTING-(DO NOT MODIFY THIS APPLIANCE)

To check the operation of the electronic (module) controller (Techrite) you will require a digital multimeter with the functions to measure ac / dc voltage, Continuity, resistance and micro-amps.

**It is critical that the appliance is earthed and that the active and neutral are not reversed.**

**Trouble shooting Guide for Ignition Controller ( Techrite)**

There is a greeen and red LED on the ignition controller. These act as diagnostic aids when ignition does not occur.

Green LED: this is on when the board is energised

Red LED: this flashes according to the fault code.

**Fault Codes**

| Long | Short | Meaning | Action |
|---|---|---|---|
| 0 | 2 | Normal startup | |
| 1 | 0 | normal operation | |
| 2 | 1 | Maximum ignition attempts | Check spark electrode , spark connection, gas supply |
| 2 | 2 | Flame failure lockout | Check Flame sense electrode, lead, connection polarity, earthing on burner |
| 1 | 2 | Pressure switch off | Check room air and combustion fans run, pressure switches and silicon tubes from kinks |
| 1 | 3 | Pressure switch on | Check contact on Pressure Switch for fault, audible sound should be heard when contact made. |
| 3 | 1 | Pressure switch failed | Check combustion fan for obstructions, check room air fan for lint build up. |

| Item no | check | Action |
|---|---|---|
| 1 | No ignition when appliance is turned on | • Check 240 volts power to heater in incoming plug Connector |
| 2 | Power present but appliance not operating | • If there is power to the electronic module, the ignition module may be in lockout. To reset the module turn off the power supply for 15 seconds and then turn the power on again. Check the diagnostic LED to determine fault code. |
| 3 | After resetting the module and the appliance is still not operating. | • Check the external 1.5 amp fast blow fuse in loom. |
| 4 | If the fuse is o.k. and there is power to electronic module | • Check other connections are in place. If the last checks are correct the ignition electrode should spark at the same time as the gas control solenoid valves open. At this point the spark electrode will activate for up to 10 seconds maximum until the flame has been established. |



## CLEANING

All cleaning should be carried out when the heater is cold. Normally the heater should only need wiping with a lint-free damp cloth. Any stubborn stains can be removed with a non-abrasive spray on cleaner. If an abrasive cleaner is used the paint finish will be damaged.

**For heater fitted with the glass front:**

All cleaning should be carried out when the heater is cold. Clean the outer glass with a mild liquid or spray on glass cleaner.

Do not use harsh abrasive cleaners or sharp metal scrapers to clean the heater glass front since they can scratch the surface, which may result in shattering of the glass.

Internally the heater should only be cleaned by an authorised service person.

### Flame characteristics

The heater flame should be stable, not lifting from the burner. The logs should glow after approximately 15 minutes operation on HIGH setting.

The heater is a fuel effect unit and is designed to operate with luminous flames and may exhibit slight carbon deposit on the logs. If there is any excess carbon build-up on logs, or the burner flame is unstable, contact Sampford IXL in your state (See rear page).

**Important:**

The appliance should be inspected before use and at least annually by an authorised service person. More frequent cleaning may be required due to excessive lint build-up from carpeting, bedding materials, pet hair, etc.

It is imperative that control compartments, burners and circulating air passage ways of the appliance be kept clean.

Do not use this fire if the glass is cracked or with the glass safety screen removed.

Do not use fire with broken or missing logs.

If your heater requires attention contact your supplier or authorised service person

## INSTALLATION DETAIL

1. This appliance is to be installed by an authorised service person only.
2. This appliance shall be installed in accordance with the manufacturer's Installation instructions, local gas fitting regulations, municipal building codes, electrical wiring regulations, and AS5601 the Australian Standard for gas installations.

Refer also to AS5601 for pipe sizing tables.

3. Remove the heater from the carton and remove the four transit screws. Check that the heater is suitable for the gas available. Refer to the data label located within the fan chamber (Bottom most area with fascia removed).

**THIS HEATER IS SUPPLIED WITH STAND OFF BRACKETS AND INSULATION BLANKET FOR INSTALLATION INTO COMBUSTIBLE MATERIALS DO NOT REMOVE ANY PARTS WHEN INSTALLING INTO A COMBUSTIBLE ENCLOSURE**

(Please dispose of packaging appropriately, keep away from children).

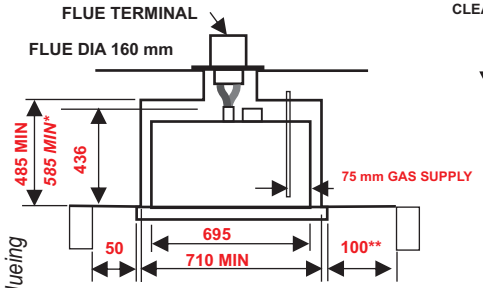
### Clearances

For minimum clearances refer figures 5 and 6.

Note: Ensure that the combustion air opening under the heater is not obstructed.

4. Ensure the minimum clearances to combustible materials are maintained during installation, including adequate space for the proper operation and servicing of the heater. For clearances to furniture and curtains refer to warning on page 7.

**Fireplace opening**




** Ensure controls are visible

FIG 5.

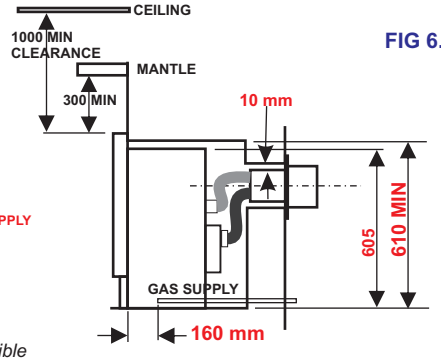



FIG 6.

* clearance required for vertical flueing

**Mock kit opening**

POWER CAN BE HARD WIRED OR TO A NEAR 10 A OUTLET.

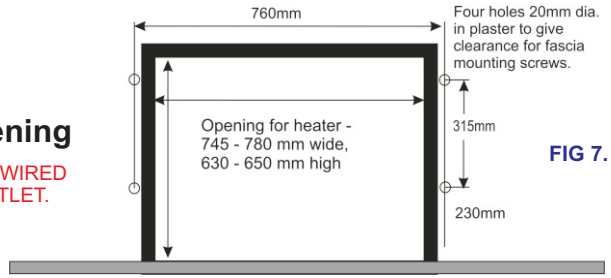

760mm
Four holes 20mm dia. in plaster to give clearance for fascia mounting screws.
Opening for heater - 745 - 780 mm wide, 630 - 650 mm high
315mm
230mm

FIG 7.

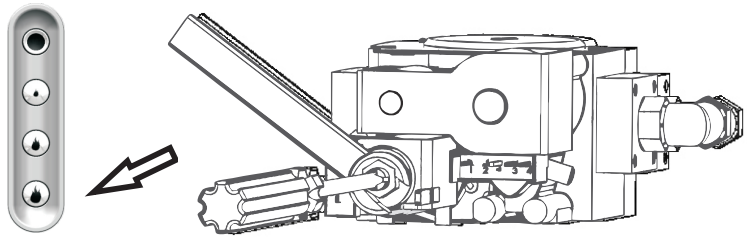
A minimum clearance of 100mm must be maintained between the rear of the cabinet and the rear wall of the fireplace.



## INSTALLATION DETAIL

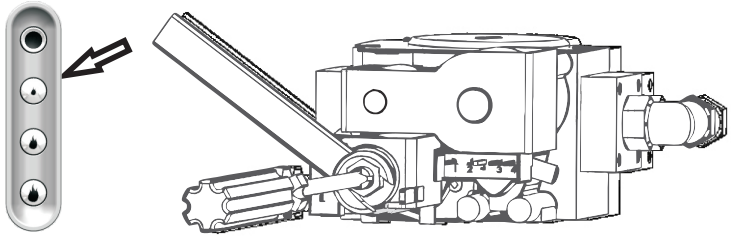
3. Switch the control buttons to 'High flame' position as indicated in figure 26 and using a screwdriver held in position adjust spanner to the pressure 0.75 kPa for Natural gas or 2.65 kPa for LPG. (Turn clockwise to increase pressure and anticlockwise to decrease pressure).

FIG 26.



4. Switch the control buttons to 'Low flame' position as indicated in figure 27. Retain spanner in position and using a screwdriver adjust the central screw control to give a pressure reading of 0.4 kPa for Natural Gas and 1.1 kPa for LPG. (Turn clockwise to increase pressure and anticlockwise to decrease pressure).

FIG 27.



5. Switch heater off and remove the manometer tube. Tighten pressure test point by turning the captive screw fully clockwise.
6. Replace plastic cap. Ensure the little lug is positioned towards lower right hand side to clear the controls.
7. Refit the fascia, making sure not to damage the power cord or switch cable.
8. Follow user instructions to turn on heater.
   Operate the heater of HIGH, MEDIUM and LOW settings.
   The flame should be stable, no lifting from the burner and the logs should glow after approximately 15 minutes of operation at HIGH burner.

If the flame is unstable:

- Check that the burner is located correctly.
- Check that the glass front is located correctly and is against the sealing rope.
- Check that the gas pressure is correctly adjusted.

If the heater still does not operate to specification refer to the troubleshooting chart on pages 20 & 21, or contact Sampford IXL in your state.

## GAS CONTROL

23. Gas control layout is as indicated in figure 23.

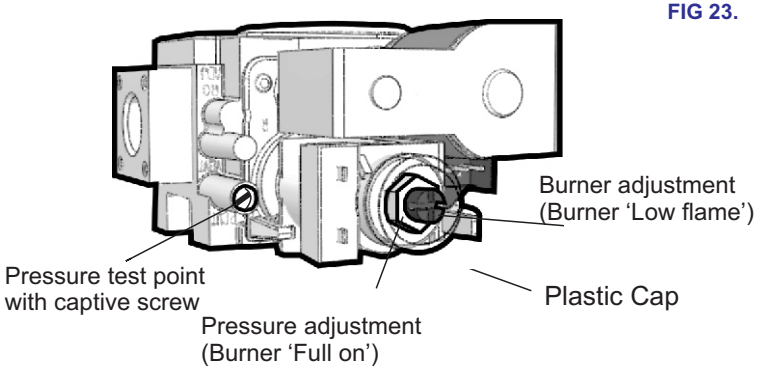
Pressures for 'Burner full on' and 'Burner low flame' are factory set, however if pressures need to be checked or adjusted follow the procedures described below and on the next two pages.

**Important: To achieve the correct visual flame effect:**

**On Propane the gas pressure must be set at 2.65 kPa with burner operating on maximum setting.**

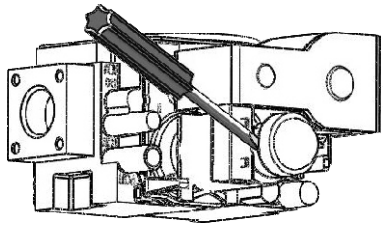
**On Natural Gas the gas pressure must be set at 0.75 kPa with burner operating pressure on maximum setting.**

FIG 23.




To check control outlet pressure at burner 'Full on" and 'Low Flame" positions remove the plastic cap from the regulator adjustment location as indicated in figures 24 .

FIG 24.




24. The pressure point is closed with a captive screw. Turn screw 6 revolutions anticlockwise to open the pressure point as indicated on figure 25 (a) and place manometer tube over the test point as per figure 25(b).

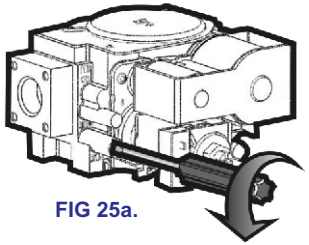


FIG 25a.

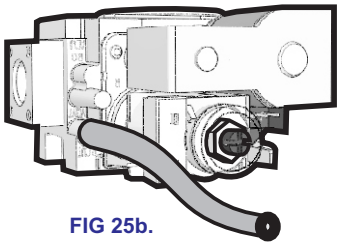


FIG 25b.



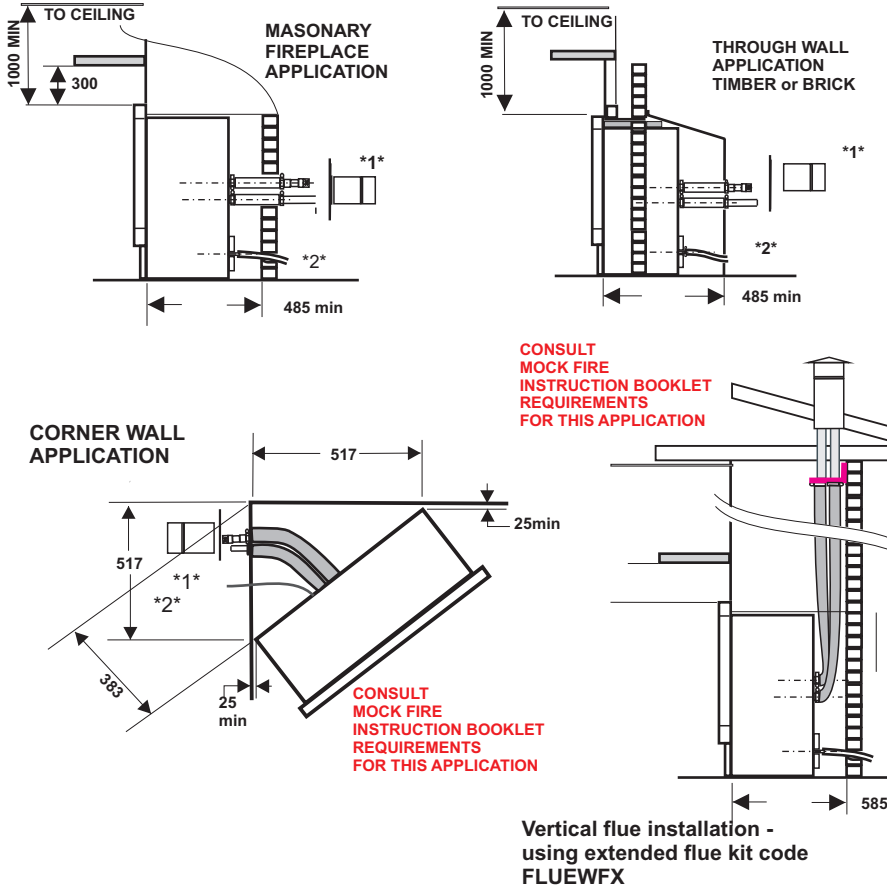
## FLUEING OPTIONS

The heater is supplied with components to suit a horizontal flue coming through a wall at the back of the heater. The Components include a flue cowl which is designed to be fitted to the outside wall with suitable fasteners. Condensate drain tube 2m and Clamp, and flexible tube sealant.

Flexible ducting is provided to attach the heater to the flue cowl. The use of this ducting provides for some flexibility in the manner the flue and intake air are connected.The flue and air intake components are fully attached to the heater prior to the heater being fitted into the cavity.

**When flueing the through the roof the Extended Flue Kit is required code FLUEWFX. The maximum length of flue pipes that can be used with the Powerflue heater is 6.0m.**

FIG 8.




**Vertical flue installation - using extended flue kit code FLUEWFX**

*1* For any horizontal application top hat section can be removed.
*2* Condensation drain must have sufficient fall to provide adequate drainage. ensure no water traps occur in drain.

## INSTALLATION DETAIL

**CAVITY REQUIREMENTS**

The heater is to be fitted into position with the flue pipes fully installed onto the heater. Therefore, the cavity must be prepared to accept the heater first.
Before cutting any flue opening in the external wall, the finished floor level must be known. This floor level must include any tiling, loose hearth or panels which will support the heater. All clearances shown in fig 1. & fig 2. must be adhered to.

**Note:**

The appliance must be secured at the front to a vertical face. Where this is difficult due building inaccuracies, limited non combustible packing may be used to obtain a suitable vertical surface.
Power flue appliances are deeper than non power flue heaters so the cavity may need to be pre-prepared prior to any installation or built to suit.

**PREPARING THE CAVITY**

The power flue heater is a high efficiency unit extracting heat which in other heaters would escape in the flue gases. Condensate from the flue gases will be produced from this heater .

**A condensate drain on the rear of the heater must be connected to a hose to drain this condensate out of the house. This hose must be fitted prior to installation of the heater into the cavity.**

Check the floor of the cavity is smooth, flat and level. Using your template as a guide, mark the flue cutout on the rear wall of the cavity and cut through from either the inside or the outside to produce a neat round hole in the external wall.

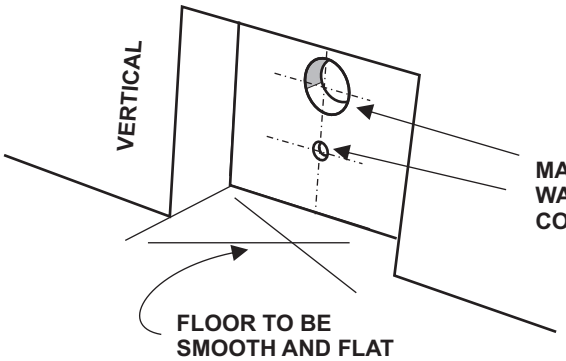



FIG 9.



## INSTALLATION DETAIL

**TERMINAL INSTALLATION**

FLUE TERMINAL
Conical rain hat section may be removed for horizontal installations

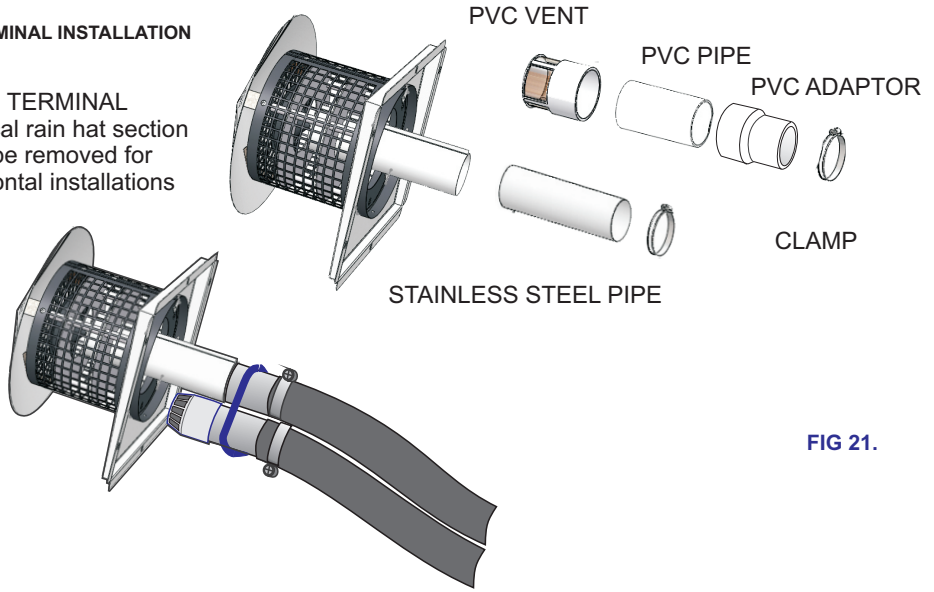



FIG 21.

**Fitment of flexible pipes to flue terminal.**

The flexible tubing is now fully extended out of the hole in the wall.
Cut the tubing so that 20 mm is extending past the wall opening.
Fit the stainless steel tubing to the flexible pipe from the flue outlet, using silicon sealant to seal the join and a hose clamp.
Fit the pvc tubing and the air inlet to the other flexible tube, using a hose clamp.
Place Terminal cover plate over both air intake and exhaust air pipes.
Fit the stainless tube into the centre pipe of the flue terminal.
Using the included cable tie fix the air inlet hose to the flue pipe.
Fix Terminal cover to outside wall using suitable fixtures.
Bend tabs on Terminal cover and secure Terminal to cover using screws provided.

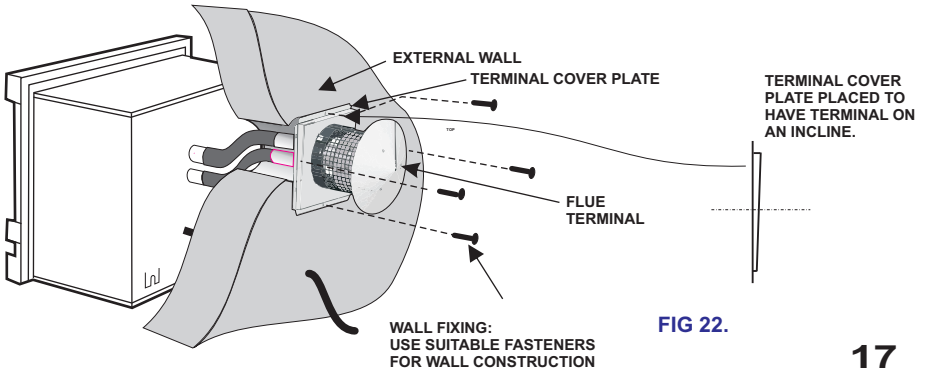

EXTERNAL WALL
TERMINAL COVER PLATE
TERMINAL COVER PLATE PLACED TO HAVE TERMINAL ON AN INCLINE.
FLUE TERMINAL
WALL FIXING:
USE SUITABLE FASTENERS FOR WALL CONSTRUCTION

FIG 22.

## INSTALLATION DETAIL

**INSTALLING HEATER**

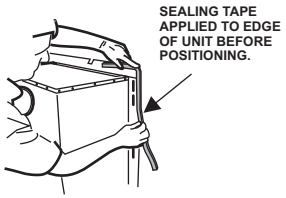
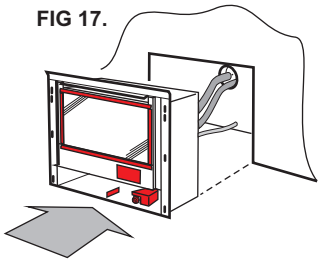
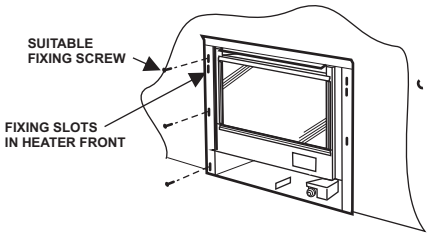



FIG 17.






Position sealing tape around perimeter of heater rear edge behind mounting face.
**See fig 17.**

Bend gas pipe and electrical entry tags inwards to allow cable and gas pipe to enter easily.

Fully extend the flexible flue and air intake and position these pipes through the hole driled through the wall. Route condensate tube through smaller hole in wall.

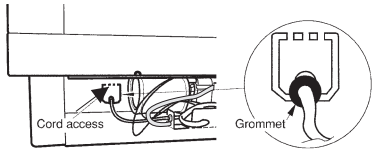
Align the gas supply pipe with it's entry point and the flue with the cutout in the rear wall.

Slowly slide the heater into position until the mounting face comes into contact with the vertical wall.
**Note**: As heater is slid into position, ensure that condensate and flexible flue pipes are fed through their respective holes. It may be advisable when the heater is positioned halfway into cavity to check hoses from outside to ensure that they are not kinked
**See fig 17.**

**CONNECTIONS**

Make electrical and gas connection to heater. Ensure gas soundness and that the connections meet the relevant standards.
Fold entry tags back in position over gas pipe and cable.
**See figs 18, 19 and 20 .**

FIG 18.




**Hard wire electrical connection thru cutout in rear panel. Fit grommet over cable at entry.**
**Hard (fixed) wiring connection to be carried out by a qualified electrician.**

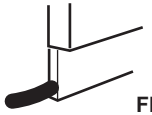


FIG 19.

**For electrical connection to 10 amp wall socket, run cord thru cutout in fan chamber panel.(either side)**
**Ensure that the cord cannot be trapped when the heater is Installed.**

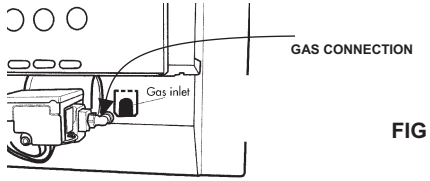



FIG 20.



## INSTALLATION DETAIL

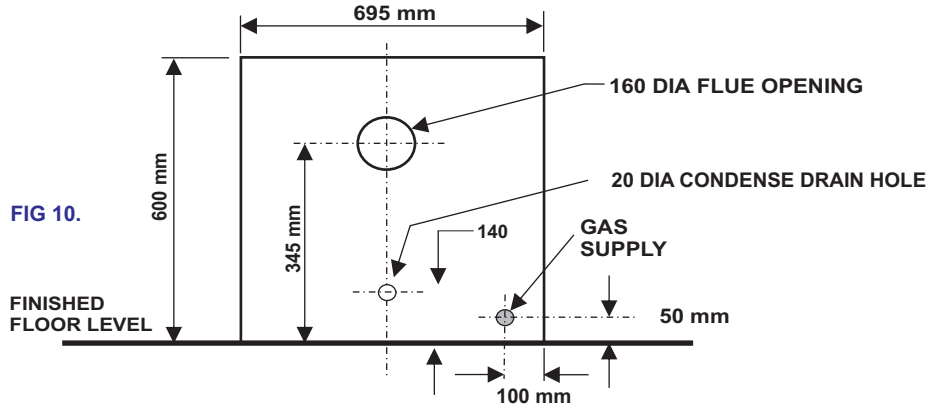
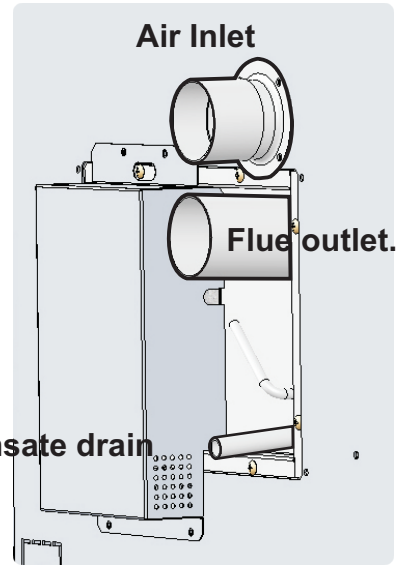



FIG 10.

To make a template, use a sheet of stiff cardboard or (mdf) medium density fibre board cut to represent the rear of the heater. mark a vertical centre line and an appropriate circle 345 mm from the bottom indicating the flue position cut out.
**see fig 10.**

Two lengths of flexible aluminum hose is supplied with the heater.
These hoses can be stretched to 1m lengths.

FIG 11.




Place a liberal amount of silicon sealant to the inside of the flexible flue pipe which is to be mounted onto the flue outlet.

Slip the flexible aluminum hose over the flue outlet with a hose clamp, Tighten the hose clamp to ensure the hose is securely attached to the flue outlet.

The flexible aluminum hose is attached to the air inlet in the same manner, however there is no need to apply the silicon sealant on the air inlet.

Secure condensate tube to drain using supplied clamp.

## FRONT FASCIA REMOVAL

1. Remove the wire mesh grille by gently lifting it upwards and then outwards. Similarly remove a fitted glass kit by also gently lifting it upwards and then outwards.

2. Remove 4 M5 screws fixing the fascia assembly to the heater body. Bring the bottom of the fascia towards you gently to partly disengage it from the body of the heater. After it has been disengaged gently lift it up vertically to completely disengage it from the body of the heater. Refer figure 12.

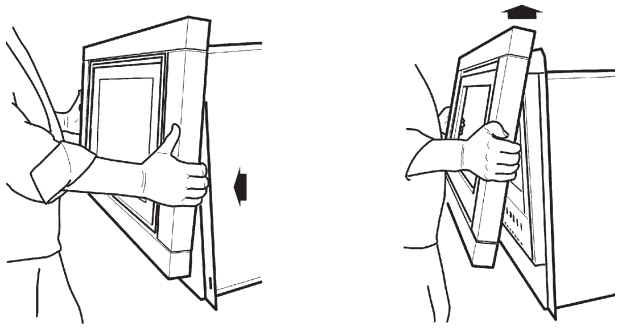


FIG 12.

To fully remove the fascia, unclip the switch cable from the cable connector on the PCB and unclip the cable from the clipping points on the rear of the fascia.

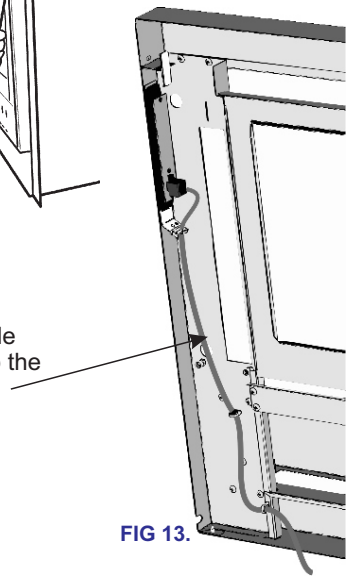


FIG 13.

3. To remove the inner glass: see Fig14. Loosen off all the clamp screws. Completely remove the one vertical side and the top clamp.. Try not to touch the front surface of the glass to avoid finger marks. Remove the glass by sliding the glass sideways out of the clamp and then lifting out from the bottom. Place the glass in a safe position for refit later.

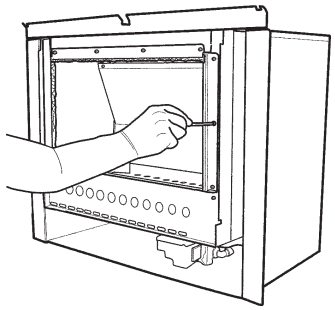


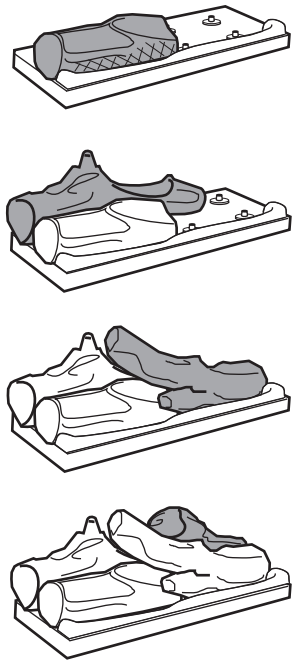
FIG 14.



## LOG INSTALLATION

Carefully unpack the log set. Logs are numbered as follows:

**no1 left front**
**no2 left back**
**no3 right front**
**no4 right back log.**



Position the four individually numbered logs in the following order on the burner as shown in **fig.15** The male locating pins in the burner must engage with the corresponding holes in the individual logs. **see fig 15.**

(a) Place log no 1 onto the 2 front pins on the burner head, ensuring that the charring faces the front.

(b) Place log no 2 onto the two left back pins.

( c) Place log no 3 onto the single right front pin, ensure the fork locates over log no 2.

(d) Place log no 4 onto the single right back pin, ensurezeft side of log rests in the depression in log no 3.

**FIG 15.**
**SHOWS POSITONING OF LOGS RELATIVE TO EACH OTHER.**

**REFITTING FRONT GLASS**

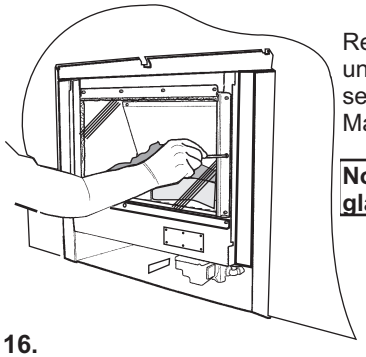


FIG 16.

Refit the front glass, slide into lower clamp and then under side clamp. Make sure that it is seated evenly on sealing rope. replace top and side clamp and secure. Make sure not to over tighten the clamp screws.

**Note: An air tight seal is to be achieved between glass and seal. Care should be taken to achieve this.**